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EUROPEAN PATENT APPLICATION

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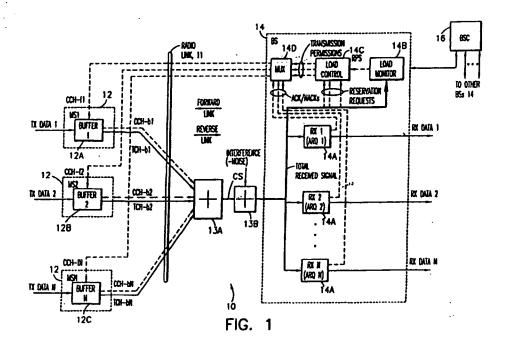
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 NL PT SE
- (30) Priority: 20.09.1996 US 716997
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- (54) Load control method and apparatus for CDMA cellular system having circuit and packet switched terminals
- (57) A method for operating a cellular communications system of a type that includes a first type of terminal having real-time transmission needs and a second type of terminal having nonreal-time transmission needs. The method includes the steps of (a) determining

at periodic intervals a total amount of capacity required to service the first type of terminals; (b) subtracting the determined amount from a current maximum capacity; and (c) allocating all or some of the remaining capacity, if any, to one or more of the second type of terminals.





EUROPEAN SEARCH REPORT

Application Number EP 97 30 7132

ategory		indication, where appropriate,	Relevant	CLASSIFICATION OF THE
	of relevant pas	sages	to claim	APPLICATION (Int.Cl.6)
	FOR INTEGRATED VOICEDMA PACKET RADIO NIEEE JOURNAL ON SEICOMMUNICATIONS, vol. 12, no. 4, 1 Npages 654-664, XPOOR ISSN: 0733-8716	AREAS IN 1 1994 (1994-05-01), 1 0588842 1 - column 7, line 23 * 5 - line 19 *	1,2,4,5, 8,17,20, 31,32	H04Q7/38 H04L12/64
	MICRO-CELLULAR NETW MULTIPLE CLASSES OF WIRELESS NETWORKS, vol. 2, no. 3, 1 Au pages 195-203, XPOO ISSN: 1022-0038	TRAFFIC" gust 1996 (1996-08-01), 0625338	1-3,5, 11,17, 18,20,25	
	* column 9, line 36 * column 16, line 1	10 - column 17, line 2 *		TECHNICAL FIELDS SEARCHED (IM.CLA) H04L H04Q
A	GUARANTEE IN HIGH-S WIRELESS NETWORKS" 1996 IEEE INTERNATI COMMUNICATIONS (ICC TECHNOLOGIES FOR TO DALLAS, JUNE 23 - 2 VOI. 2, 23 June 19 728-734, XP00062587 INSTITUTE OF ELECTR ENGINEERS ISBN: 0-7	ONAL CONFERENCE ON C), CONVERGING MORROW'S APPLICATIONS C7, 1996, 196 (1996-06-23), pages CICAL & ELECTRONICS 1803-3251-2 5 - column 3, line 53 *	1-3,5,6, 8,16-18, 20,21,29	
		-/		
	The present search report has			
	THE HAGUE	Date of completion of the search 12 October 1999	Pec	Examiner C1, R
X : parti Y : parti doct A : tech	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with ano ament of the same category motion declarated —written declosure	E : earlier patent do after the filing da	ie underlying the current, but publi te in the application or other reasons	invention shed on, or



EUROPEAN SEARCH REPORT

Application Number

EP 97 30 7132

Category	Citation of document with Ir	ERED TO BE RELEVANT adication, where appropriate,	Relevant	CLASSIFICATION OF THE
	or relevant pass		to claim	APPLICATION (Int.Cl.6)
A	EP 0 587 980 A (ROK 23 March 1994 (1994	E MANOR RESEARCH)		
	* page 10, line 4 -	line 19 *		
	* page 12, line 25	- page 15, line 3 *		
	UO OF SECOT & (NOVI	A MODILE DUONES LID		
A	WO 95 35637 A (NOKI	ATIONS OY (FI); GLISIC)		
	28 December 1995 (1	995-12-28)		
	* page 12, line 25	- page 15, line 3 *		
	* claims 1,7-10 *			
				TECHNICAL FIELDS SEARCHED (Int.C1.5)
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	The present search report has	been drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
	THE HAGUE	12 October 1999	Pec	ci, R
C	CATEGORY OF CITED DOCUMENTS			
	ticularly relevant if taken alone	E : earlier patent docum after the filling date		sned on, or
doc	ticularly relevant If combined with anoi sument of the same category hardcolors had company	L : document cited for o	other reasons	
A : 180	hnological background n-written disclosure	*****************************		******************************

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 97 30 7132

This annex tists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way Rabie for these particulars which are merely given for the purpose of information.

12-10-1999

cite	atent document d in search repo	t ort	Publication date		Patent family member(s)	Publication date
EΡ	0587980	A	23-03-1994	GB FI	2270815 A 934088 A	23-03-19 19-03-19
WO	9535637	A	28-12-1995	FI AU AU CN EP JP NO US	942961 A 695305 B 2739795 A 1130972 A 0717913 A 9505197 T 960657 A 5754541 A	21-12-19 13-08-19 15-01-19 11-09-19 26-06-19 20-05-19 19-04-19 19-05-19
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82